YASH SONAWANE

yashsonawane141103@gmail.com | +91 8856878497 | linkedin.com/in/yash-sonawane1411 | github.com/yashsonawane14

EDUCATION

Bachelor of Engineering, Computer Engineering | *Savitribai Phule Pune University (SPPU)*　　　　**May 2025**
Coursework: Software Engineering, System Design, Computer Networks, Cloud Computing, Machine Learning　　**CGPA: 7.99**

XII HSC | *Sir Parshurambhau College, Pune, 75.67%*　　　　Aug 2021

PROJECTS

College Recommendation System | *Full Stack Django Web Application*
- Led a team of 3 to develop a web application using **Python**, Django and **JavaScript**, identifying trends and patterns in student preferences using Machine Learning algorithms to provide **personalised college recommendations**.
- Designed and implemented a responsive UI with **JavaScript**, HTML, and CSS, improving user interaction by allowing adaptive entry of preferences and viewing of recommendations, which **increased user engagement by 30%**.
- Optimized the performance of data handling and **machine learning** models, through effective database management and algorithm tuning, **reducing recommendation processing time by 20%**.

Student Details Management System | *Full Stack Java Web Application*
- Developed a management system using Spring Boot and Hibernate, leveraging test-driven development to ensure data integrity and secure user authentication, resulting in 20% improvement in system reliability.
- Implemented **Hibernate ORM** to manage database operations, enhancing system efficiency and scalability. This approach **increased data processing speed by 20%**, supporting larger data volumes without performance loss.
- Integrated RESTful APIs to facilitate robust communication between front-end and back-end components, resulting in a 30% improvement in system responsiveness, which reduced data synchronization issues by 35%.
- Conducted in-depth **debugging and troubleshooting** in a clustered environment, which **reduced production downtime by 30%** and enhanced overall system performance and stability.

Note It Down | *Java Web Application*
- Crafted a **Java web application** for note management using Java, Servlets, and JSP with MySQL database, and styled with HTML, CSS, and Bootstrap. Enabled users to efficiently manage notes, **increasing productivity by 25%**.
- Applied principles of version control, modular design, and **OOP**, enhancing code maintainability and facilitating **30% quicker feature update cycle**.
- Streamlined developer onboarding with comprehensive documentation, **reducing onboarding time by 40%**.

Gender and Age Detection | Flask and CNN-Powered Web Application
- Built an web app using Flask that detects gender and age from uploaded images via a convolutional **neural network (CNN)**, **achieving 92% accuracy on a test dataset of 10,000 images.**
- **Processed over 50 image uploads per hour** with OpenCV for efficient image preprocessing, reducing latency by 20%.
- **Optimized model performance** by integrating multi-framework support (TensorFlow, Caffe, and PyTorch), leading to a 30% improvement in image processing speed.
- **Fostered community contributions**, resulting in 150+ feature updates, bug fixes, and performance enhancements through open-source collaboration.

TECHNICAL SKILLS

Programming Languages: Java, Python, C++, JavaScript, HTML5, CSS3

Web Development: Spring Boot, MVC, Hibernate, Servlet, JSP, React, RESTful APIs

Databases: MySQL, (SQL) MS SQL Server, MongoDB

DevOps & SDLC Tools: Agile Scrum, Git, Maven, Gradle, Postman

EXTRA CURRICULAR ACTIVITIES

Association of Computer Engineers Students (ACES) – Technical Team Member
- Organised technical competitions at the Tectonic Sinhgad technical fest. Involved in organising Events and Hackathons

Youtube Film Making
- Expert in Adobe Premiere Pro, skilled in filmmaking from concept to completion.

CERTIFICATIONS

Java | Java Adv | C++ | Javascript | Python